**IT Applications Unit 3, AOS 1, Online Communities**

**Complete the following, from Chapter 2,**

**Problem-solving Methodology, pgs, 60-80**

Analyse

Design

Develop

Evaluate

**DEVELOP:**

**EVALUATION CRITERIA AND PROTOTYPE WEBSITES, P 76**

**IDENTIFYING EVALUATION CRITERIA, P 76**

1. **What is the purpose of evaluating the solution?**

The purpose of evaluating a solution is to judge whether solution has fulfilled the requirements identified in the analysis stage.

1. **In identifying evaluation criteria efficiency and effectiveness can be used as a scaffold. Give an example of a measure in terms of efficiency and effectiveness.**

**Does the solution:**

* Allow people to access information in a timely manner? (effectiveness)
* Allow members of the organisation to communicate more easily with each other and other members of the community. (efficiency)
* cut down on the costs associated with sharing information (efficiency)

**DEVELOPING A PROTOTYPE WEBSITE, P 76**

1. **What is a prototype website?**

A prototype website demonstrates navigation options, a user interface and the overall functionality of a website. The features of a prototype are not fully functional, but the user should be able to get the general idea of how it will operate.

**DEVELOPMENT STAGE OF PSM INVOLVES:**

**USING VALIDATION**

1. **How does validation occur?**

Validation involves checking the data for accuracy and completeness. This can be done with manually or electronically.

*Manual validation* requires the data entry person to ensure that the information is correct through means such as proof reading, checking the spelling, grammar and punctuation, checking numerical data for accuracy of transcription and reasonableness.

*Electronic Validation* uses software features such as spelling and grammar checking to verify accuracy.

**MANIPULATION TO BUILD A SOLUTION**

1. **List tasks involved with manipulation.**

* Image compression
* Copying data from a word document
* Meta tags on images
* Navigation structures
* Inserting links
* Designing forms

1. **What are cascading style sheets and Meta tags?**

A cascading style sheet can be used to ensure that manipulated data has a consistent format throughout the website. Meta tags can be used to ensure that the website is accurately recorded by the search engine bots. The Meta tags are often found within the HTML code at the start of a webpage.

**TESTING THE PROTOTYPE SOLUTION, P 78**

**List the testing undertaken for:**

**FUNCTION**

1. **List some tests for functionality.**

* The web pages load up
* The navigation works
* The cascading style sheet is accessed by every page in the website
* Both relative and absolute links work on each page
* Images or imbedded media load properly
* Alt tags appear when mouse rolls over the image and images are turned off in the browser
* The website can be viewed on different screen sizes

1. **What is the difference between an absolute and a relative link?**

*Absolute links* use the exact web address to access the page. Absolute links might be used when navigating to a site external to the prototype.

*Relative links* access a webpage in relation to where the link is placed. For example, a relative link from the homepage might access a page located in another folder on the webserver. If the website is moved to another site, this relative link doesn’t need to be changed.

**APPEARANCE**

* 1. **List some tests for appearance**
* Acceptable formats and conventions have been applied throughout the website
* The appearance of the prototype website meets the gender, age and cultural needs of the users
* The message of the website is not changed by the screen size
* Easily identify the organisation on each webpage
* In the footer there is a clear indication to the creator and last updated date.
* Home button is easily identifiable on each webpage in the navigation bar.
  1. **Draw an example of an effective testing table.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DESCRIPTION OF THE TEST** | **TEST DATA TO BE USED** | **EXPECTED RESULTS OF THE TEST** | **ACTUAL RESULTS OF THE TEST** | **ARE THERE ERRORS TO CORRECT?** |
| Testing that the navigation bar works | Click on each link and follow it to see if it works successfully | Each link should take you to the desired destination | One link didn’t work but the rest were successful | Yes, fix broken link on the contact us page. |
| Testing the privacy of the closed section of the website | *Correct password:* Name: jai  Password: letmein  *Incorrect password:*  Name: Jai  Password: 12345 | When the correct username and password are used the user will be taken to the closed section of the website.  When the incorrect username and password are used a dialogue box will appear detailing that an error has occurred. | The test worked as planned. | No. |